

molecular comprising: [An] an isolated molecule containing two antigen binding sites and two complementary determining segments, [both] the two antigen binding sites positioned at opposite ends of the molecule [and the two complementary determining segments positioned at opposite ends of the molecule], the molecule further consisting of:

- a) a purified first moiety containing a first antigen binding region bound to a first antigen non-binding region via a peptide linker; [and]
- b) a purified second moiety containing a second antigen-binding region bound to a second antigen-non-binding region via a peptide linker, whereby the moieties are engineered so that the first moiety is rotated about 180 degrees compared to the second moiety [as to be juxtaposed to each other in a counterpoised configuration], wherein the first moiety and second moiety are derived from the same gene, and wherein the first moiety and the second moiety are light chain variable domains ; and
- c) a hydrophobic residue situated intermediate the first moiety and second moiety to confer affinity between the first moiety and second moiety.

11. (Canceled)

12. (previously amended) The molecule as recited in claim 10 wherein the first antigen-binding region and second antigen-binding region are identical.

13. (original) The molecule as recited in claim 10 wherein the first moiety is covalently attached to the second moiety.

14. (original) The molecule as recited in claim 10 wherein the molecule has a weight of between 20,000 and 30,000 daltons.


21. (previously added) The molecule as recited in claim 10 wherein each antigen binding site comprises a complementary region and a framework region of a variable light

In re STEVENS et al. (S.N. 09/368,989)
Response to May 5, 2003 Official Action
Page -3-

chain protein.

Respectfully submitted,

CHERSKOV & FLAYNIK

By 

Michael J. Cherskov (33,664)